

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
		((gate or door) same (gas and spring)) and (ald or cvd) and deposit\$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit\$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/11/06 14:31
S1	132	RTP.ti.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/05/25 10:55
S2	8628	118/715.ccls. or 118/728.ccls. or 118/50.ccls. or 156/345.29.ccls. or 156/345.33.ccls. or 156/345.34.ccls. or 156/345.35.ccls. or 156/345.36.ccls. or 156/345.26.ccls. or 156/345.51.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/01 09:33
S3	8034	137/262-264.ccls. or 137/454.2 or 137/560.ccls. or 137/561r.ccls. or 137/561a.ccls. or 137/571-576.ccls. or 137/590.ccls. or 137/594-596.ccls. or 137/599.01.ccls. or 137/599.05-599.07.ccls. or 137/602.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/11/07 12:45
S4	2262	141/285-286.ccls. or 141/37.ccls. or 141/44-47.ccls. or 141/54.ccls. or 141/301-302.ccls. or 141/367.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/11/07 12:45
S5	456	261/127.ccls. or 261/131.ccls. or 261/146-147.ccls. or 261/150.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/11/07 12:45
S6	2572	261/19-22.ccls. or 261/23.1.ccls. or 261/40.ccls. or 261/42.ccls. or 261/62-63.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/11/07 12:45

S7	7023	261/64.1.ccls. or 261/65.ccls. or 261/75-76.ccls. or 261/94-96.ccls. or 261/100-102.ccls. or 261/105.ccls. or 261/108-109.ccls. or 261/113.ccls. or 261/114.1.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/11/07 12:45
S8	8968	(ald or cvd) and deposit\$3 and valve	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/11/07 12:46
S9	28323	(118/715.ccls. or 118/728.ccls. or 118/50.ccls. or 156/345.29.ccls. or 156/345.33.ccls. or 156/345.34.ccls. or 156/345.35.ccls. or 156/345.36.ccls. or 156/345.26.ccls. or 156/345.51.ccls.) or (137/262-264.ccls. or 137/454.2 or 137/560.ccls. or 137/561r.ccls. or 137/561a.ccls. or 137/571-576.ccls. or 137/590.ccls. or 137/594-596.ccls. or 137/599.01.ccls. or 137/599.05-599.07.ccls. or 137/602.ccls.) or (141/285-286.ccls. or 141/37.ccls. or 141/44-47.ccls. or 141/54.ccls. or 141/301-302.ccls. or 141/367.ccls.) or (261/127.ccls. or 261/131.ccls. or 261/146-147.ccls. or 261/150.ccls.) or (261/19-22.ccls. or 261/23.1.ccls. or 261/40.ccls. or 261/42.ccls. or 261/62-63.ccls.) or (261/64.1.ccls. or 261/65.ccls. or 261/75-76.ccls. or 261/94-96.ccls. or 261/100-102.ccls. or 261/105.ccls. or 261/108-109.ccls. or 261/113.ccls. or 261/114.1.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/11/07 12:46
S10	1890	(ald or cvd) and deposit\$3 and (valve same wall)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/11/07 12:46
S11	231	(ald or cvd) and deposit\$3 and ((valve and actuator) same wall)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/11/07 12:46

S12	0	((gate or door) with (gas and spring)) and (ald or cvd) not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit\$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit\$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit\$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit\$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit\$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)))))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit\$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit\$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)))))))))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/11/06 14:31
S13	0	valve and wall and (deposit \$4 or etch\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/11/06 14:31
S14	0	valve and wall and (deposit \$4 or etch\$4) and flush	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/11/06 14:31

S15	0	(valve and wall and (deposit \$4 or etch\$4)) and (wafer or substrate or article)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/11/06 14:31
S16	0	(valve and wall and (deposit \$4 or etch\$4)) and (wafer or substrate or article)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/11/06 14:31
S17	0	(wall with "pinch valve") and deposit\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/11/06 14:31
S18	0	(wall with "pinch valve") and (reactor or chamber or vessel or tank) not ((wall with "pinch valve") and deposit\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/11/06 14:31
S19	0	"diaphragm valve".ti. and "chemical vapor deposition"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/11/06 14:32
S20	0	((118/715.ccls. or 118/728.ccls. or 118/50.ccls. or 156/345.29.ccls. or 156/345.33.ccls. or 156/345.34.ccls. or 156/345.35.ccls. or 156/345.36.ccls. or 156/345.26.ccls. or 156/345.51.ccls.) or (137/262-264.ccls. or 137/454.2 or 137/560.ccls. or 137/561r.ccls. or 137/561a.ccls. or 137/571-576.ccls. or 137/590.ccls. or 137/594-596.ccls. or 137/599.01.ccls. or 137/599.05-599.07.ccls. or 137/602.ccls.) or (141/285-286.ccls. or 141/37.ccls. or 141/44-47.ccls. or 141/54.ccls. or 141/301-302.ccls. or 141/367.ccls.) or (261/127.ccls. or 261/131.ccls. or 261/146-147.ccls. or 261/150.ccls.) or (261/19-22.ccls. or 261/23.1.ccls. or 261/40.ccls. or 261/42.ccls. or 261/62-63.ccls.) or (261/64.1.ccls. or 261/65.ccls. or 261/75-76.ccls. or 261/94-96.ccls. or 261/100-102.ccls. or 261/105.ccls. or 261/108-109.ccls. or	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/11/06 14:32

		261/113.ccls. or 261/114.1.ccls.) and (((ald or cvd) and deposit\$3 and (valve same wall)) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit\$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit\$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)))))) or ((wall with "pinch valve") and deposit\$3) or ((wall with "pinch valve") and (reactor or chamber or vessel or tank) not ((wall with "pinch valve") and deposit\$3)))				
S21	0	(valve and wall and (deposit \$4 or etch\$4)) and (((118/715.ccls. or 118/728.ccls. or 118/50.ccls. or 156/345.29.ccls. or 156/345.33.ccls. or 156/345.34.ccls. or 156/345.35.ccls. or 156/345.36.ccls. or 156/345.26.ccls. or 156/345.51.ccls.) or (137/262-264.ccls. or 137/454.2 or 137/560.ccls. or 137/561r.ccls. or 137/561a.ccls. or 137/571-576.ccls. or 137/590.ccls. or 137/594-596.ccls. or 137/599.01.ccls. or 137/599.05-599.07.ccls. or 137/602.ccls.) or (141/285-286.ccls. or 141/37.ccls. or 141/44-47.ccls. or 141/54.ccls. or 141/301-302.ccls. or 141/367.ccls.) or (261/127.ccls. or 261/131.ccls. or 261/146-147.ccls. or 261/150.ccls.) or (261/19-22.ccls. or 261/23.1.ccls. or 261/40.ccls. or 261/42.ccls. or 261/62-63.ccls.) or (261/64.1.ccls. or 261/65.ccls. or 261/75-76.ccls. or 261/94-96.ccls. or 261/100-102.ccls. or 261/105.ccls. or 261/108-109.ccls. or	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/11/06 14:33

		261/113.ccls. or 261/114.1.ccls.)) and (((ald or cvd) and deposit\$3 and (valve same wall)) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit\$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit\$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)))))) or ((wall with "pinch valve") and deposit\$3) or ((wall with "pinch valve") and (reactor or chamber or vessel or tank) not ((wall with "pinch valve") and deposit\$3))))				
S22	0	(((gate or door) with (gas and spring)) and (ald or cvd) not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit\$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit\$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit\$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit\$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit\$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)))) or (((gate or door) same (gas and spring)) and (ald or	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/11/06 14:34

cvd) and deposit\$3 not  
(((valve same actuator) and  
(118/715.ccls. or  
156/345.33.ccls.)) or (((ald  
or cvd) and deposit\$3 and  
((valve and actuator) same  
wall)) not ((valve same  
actuator) and (118/715.ccls.  
or 156/345.33.ccls.)))))) )  
and ((valve and wall and  
(deposit\$4 or etch\$4)) and  
(((118/715.ccls. or 118/728.  
ccls. or 118/50.ccls. or  
156/345.29.ccls. or  
156/345.33.ccls. or  
156/345.34.ccls. or  
156/345.35.ccls. or  
156/345.36.ccls. or  
156/345.26.ccls. or  
156/345.51.ccls.) or  
(137/262-264.ccls. or  
137/454.2 or 137/560.ccls.  
or 137/561r.ccls. or  
137/561a.ccls. or 137/571-  
576.ccls. or 137/590.ccls. or  
137/594-596.ccls. or  
137/599.01.ccls. or  
137/599.05-599.07.ccls. or  
137/602.ccls.) or (141/285-  
286.ccls. or 141/37.ccls. or  
141/44-47.ccls. or 141/54.  
ccls. or 141/301-302.ccls.  
or 141/367.ccls.) or  
(261/127.ccls. or 261/131.  
ccls. or 261/146-147.ccls.  
or 261/150.ccls.) or (261/19-  
22.ccls. or 261/23.1.ccls. or  
261/40.ccls. or 261/42.ccls.  
or 261/62-63.ccls.) or  
(261/64.1.ccls. or 261/65.  
ccls. or 261/75-76.ccls. or  
261/94-96.ccls. or 261/100-  
102.ccls. or 261/105.ccls. or  
261/108-109.ccls. or  
261/113.ccls. or 261/114.1.  
ccls.)) and (((ald or cvd)  
and deposit\$3 and (valve  
same wall)) or (((gate or  
door) same (gas and  
spring)) and (ald or cvd)  
and deposit\$3 not (((valve  
same actuator) and  
(118/715.ccls. or  
156/345.33.ccls.)) or (((ald  
or cvd) and deposit\$3 and  
((valve and actuator) same  
wall)) not ((valve same

		actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((wall with "pinch valve") and deposit\$3) or ((wall with "pinch valve") and (reactor or chamber or vessel or tank) not ((wall with "pinch valve") and deposit\$3))))))				
S23	0	((("4319737") or ("5002928") or ("5002928") or ("5002928")).PN.	USPAT; USOCR	OR	OFF	2003/11/06 14:51
S24	0	("5885358").PN.	USPAT; USOCR	OR	OFF	2003/11/06 14:51
S25	6	((("5002928") or ("5853484") or ("5002928") or ("4319737") or ("5002928") or ("5002928") or ("5002928")).PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 14:55
S26	2	us-20020129768-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/20 14:53
S27	11	((("6,228,563") or ("6,333,268") or ("4,872,947") or ("5,000,113") or ("5,362,526") or ("20030045098") or ("20020155632")).PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 14:56
S28	2	("4872947").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 14:57
S29	19	((("5,522,934") or ("5,620,523") or ("5,772,771") or ("6,132,552") or ("6,294,026") or ("6,453,992") or ("5,792,272") or ("20030033980") or ("20040144310")).PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/15 14:57
S30	2	("5,002,928").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/19 13:27
S31	2	("5,853,484").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/19 13:27



S32	9791	118/715.ccls. or 118/728.ccls. or 118/50.ccls. or 156/345.29.ccls. or 156/345.33.ccls. or 156/345.34.ccls. or 156/345.35.ccls. or 156/345.36.ccls. or 156/345.26.ccls. or 156/345.51.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/19 13:38
S33	7879	137/262-264.ccls. or 137/454.2 or 137/560.ccls. or 137/561r.ccls. or 137/561a.ccls. or 137/571-576.ccls. or 137/590.ccls. or 137/594-596.ccls. or 137/599.01.ccls. or 137/599.05-599.07.ccls. or 137/602.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/19 13:38
S34	2414	141/285-286.ccls. or 141/37.ccls. or 141/44-47.ccls. or 141/54.ccls. or 141/301-302.ccls. or 141/367.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/19 13:38
S35	472	261/127.ccls. or 261/131.ccls. or 261/146-147.ccls. or 261/150.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/19 13:38
S36	2608	261/19-22.ccls. or 261/23.1.ccls. or 261/40.ccls. or 261/42.ccls. or 261/62-63.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/19 13:38
S37	7165	261/64.1.ccls. or 261/65.ccls. or 261/75-76.ccls. or 261/94-96.ccls. or 261/100-102.ccls. or 261/105.ccls. or 261/108-109.ccls. or 261/113.ccls. or 261/114.1.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/19 13:38
S38	12740	(ald or cvd) and deposit\$3 and valve	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/19 13:38

S39	29670	(118/715.ccls. or 118/728.ccls. or 118/50.ccls. or 156/345.29.ccls. or 156/345.33.ccls. or 156/345.34.ccls. or 156/345.35.ccls. or 156/345.36.ccls. or 156/345.26.ccls. or 156/345.51.ccls.) or (137/262-264.ccls. or 137/454.2 or 137/560.ccls. or 137/561r.ccls. or 137/561a.ccls. or 137/571-576.ccls. or 137/590.ccls. or 137/594-596.ccls. or 137/599.01.ccls. or 137/599.05-599.07.ccls. or 137/602.ccls.) or (141/285-286.ccls. or 141/37.ccls. or 141/44-47.ccls. or 141/54.ccls. or 141/301-302.ccls. or 141/367.ccls.) or (261/127.ccls. or 261/131.ccls. or 261/146-147.ccls. or 261/150.ccls.) or (261/19-22.ccls. or 261/23.1.ccls. or 261/40.ccls. or 261/42.ccls. or 261/62-63.ccls.) or (261/64.1.ccls. or 261/65.ccls. or 261/75-76.ccls. or 261/94-96.ccls. or 261/100-102.ccls. or 261/105.ccls. or 261/108-109.ccls. or 261/113.ccls. or 261/114.1.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/19 13:38
S40	2683	(ald or cvd) and deposit\$3 and (valve same wall)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/19 13:38
S41	393	(ald or cvd) and deposit\$3 and ((valve and actuator) same wall)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/19 13:38
S42	73	((gate or door) same (gas and spring)) and (ald or cvd) and deposit\$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit\$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/19 13:38

S43	4	((gate or door) with (gas and spring)) and (ald or cvd) not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit\$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit\$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit\$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit\$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit\$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)))))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit\$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit\$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/19 13:38
S44	70431	valve and wall and (deposit \$4 or etch\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/19 13:38
S45	7496	valve and wall and (deposit \$4 or etch\$4) and flush	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/19 13:38

S46	32898	(valve and wall and (deposit \$4 or etch\$4)) and (wafer or substrate or article)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/19 13:38
S47	32898	(valve and wall and (deposit \$4 or etch\$4)) and (wafer or substrate or article)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/19 13:38
S48	25	(wall with "pinch valve") and deposit\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/19 13:38
S49	96	(wall with "pinch valve") and (reactor or chamber or vessel or tank) not ((wall with "pinch valve") and deposit\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/19 13:38
S50	5	"diaphragm valve".ti. and "chemical vapor deposition"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/19 13:38
S51	1282	((118/715.ccls. or 118/728.ccls. or 118/50.ccls. or 156/345.29.ccls. or 156/345.33.ccls. or 156/345.34.ccls. or 156/345.35.ccls. or 156/345.36.ccls. or 156/345.26.ccls. or 156/345.51.ccls.) or (137/262-264.ccls. or 137/454.2 or 137/560.ccls. or 137/561r.ccls. or 137/561a.ccls. or 137/571-576.ccls. or 137/590.ccls. or 137/594-596.ccls. or 137/599.01.ccls. or 137/599.05-599.07.ccls. or 137/602.ccls.) or (141/285-286.ccls. or 141/37.ccls. or 141/44-47.ccls. or 141/54.ccls. or 141/301-302.ccls. or 141/367.ccls.) or (261/127.ccls. or 261/131.ccls. or 261/146-147.ccls. or 261/150.ccls.) or (261/19-22.ccls. or 261/23.1.ccls. or 261/40.ccls. or 261/42.ccls. or 261/62-63.ccls.) or (261/64.1.ccls. or 261/65.ccls. or 261/75-76.ccls. or 261/94-96.ccls. or 261/100-102.ccls. or 261/105.ccls. or 261/108-109.ccls. or	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/19 13:38

		261/113.ccls. or 261/114.1.ccls.) and (((ald or cvd) and deposit\$3 and (valve same wall)) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit\$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit\$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)))))) or ((wall with "pinch valve") and deposit\$3) or ((wall with "pinch valve") and (reactor or chamber or vessel or tank) not ((wall with "pinch valve") and deposit\$3)))				
S52	540	(valve and wall and (deposit \$4 or etch\$4)) and (((118/715.ccls. or 118/728.ccls. or 118/50.ccls. or 156/345.29.ccls. or 156/345.33.ccls. or 156/345.34.ccls. or 156/345.35.ccls. or 156/345.36.ccls. or 156/345.26.ccls. or 156/345.51.ccls.) or (137/262-264.ccls. or 137/454.2 or 137/560.ccls. or 137/561r.ccls. or 137/561a.ccls. or 137/571-576.ccls. or 137/590.ccls. or 137/594-596.ccls. or 137/599.01.ccls. or 137/599.05-599.07.ccls. or 137/602.ccls.) or (141/285-286.ccls. or 141/37.ccls. or 141/44-47.ccls. or 141/54.ccls. or 141/301-302.ccls. or 141/367.ccls.) or (261/127.ccls. or 261/131.ccls. or 261/146-147.ccls. or 261/150.ccls.) or (261/19-22.ccls. or 261/23.1.ccls. or 261/40.ccls. or 261/42.ccls. or 261/62-63.ccls.) or (261/64.1.ccls. or 261/65.ccls. or 261/75-76.ccls. or 261/94-96.ccls. or 261/100-102.ccls. or 261/105.ccls. or 261/108-109.ccls. or	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/19 13:59

		261/113.ccls. or 261/114.1.ccls.)) and (((ald or cvd) and deposit\$3 and (valve same wall)) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit\$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit\$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)))))) or ((wall with "pinch valve") and deposit\$3) or ((wall with "pinch valve") and (reactor or chamber or vessel or tank) not ((wall with "pinch valve") and deposit\$3))))				
S53	0	(((gate or door) with (gas and spring)) and (ald or cvd) not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit\$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit\$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit\$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)))))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit\$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit\$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)))))) or (((gate or door) same (gas and spring)) and (ald or	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/19 13:38

cvd) and deposit\$3 not  
(((valve same actuator) and  
(118/715.ccls. or  
156/345.33.ccls.)) or (((ald  
or cvd) and deposit\$3 and  
((valve and actuator) same  
wall)) not ((valve same  
actuator) and (118/715.ccls.  
or 156/345.33.ccls.)))))) )  
and ((valve and wall and  
(deposit\$4 or etch\$4)) and  
(((118/715.ccls. or 118/728.  
ccls. or 118/50.ccls. or  
156/345.29.ccls. or  
156/345.33.ccls. or  
156/345.34.ccls. or  
156/345.35.ccls. or  
156/345.36.ccls. or  
156/345.26.ccls. or  
156/345.51.ccls.) or  
(137/262-264.ccls. or  
137/454.2 or 137/560.ccls.  
or 137/561r.ccls. or  
137/561a.ccls. or 137/571-  
576.ccls. or 137/590.ccls. or  
137/594-596.ccls. or  
137/599.01.ccls. or  
137/599.05-599.07.ccls. or  
137/602.ccls.) or (141/285-  
286.ccls. or 141/37.ccls. or  
141/44-47.ccls. or 141/54.  
ccls. or 141/301-302.ccls.  
or 141/367.ccls.) or  
(261/127.ccls. or 261/131.  
ccls. or 261/146-147.ccls.  
or 261/150.ccls.) or (261/19-  
22.ccls. or 261/23.1.ccls. or  
261/40.ccls. or 261/42.ccls.  
or 261/62-63.ccls.) or  
(261/64.1.ccls. or 261/65.  
ccls. or 261/75-76.ccls. or  
261/94-96.ccls. or 261/100-  
102.ccls. or 261/105.ccls. or  
261/108-109.ccls. or  
261/113.ccls. or 261/114.1.  
ccls.)) and (((ald or cvd)  
and deposit\$3 and (valve  
same wall)) or (((gate or  
door) same (gas and  
spring)) and (ald or cvd)  
and deposit\$3 not (((valve  
same actuator) and  
(118/715.ccls. or  
156/345.33.ccls.)) or (((ald  
or cvd) and deposit\$3 and  
((valve and actuator) same  
wall)) not ((valve same

		actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((wall with "pinch valve") and deposit\$3) or ((wall with "pinch valve") and (reactor or chamber or vessel or tank) not ((wall with "pinch valve") and deposit\$3))))))				
S54	2	((("4319737") or ("5002928") or ("5002928") or ("5002928")).PN.	USPAT; USOCR	OR	OFF	2005/07/19 13:38
S55	1	("5885358").PN.	USPAT; USOCR	OR	OFF	2005/07/19 13:38
S56	180	RTP.ti.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/19 13:38
S57	6	((("5002928") or ("5853484") or ("5002928") or ("4319737") or ("5002928") or ("5002928") or ("5002928")).PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/19 13:38
S58	2	us-20020129768-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/19 13:38
S59	11	((("6,228,563") or ("6,333,268") or ("4,872,947") or ("5,000,113") or ("5,362,526") or ("20030045098") or ("20020155632")).PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/19 13:38
S60	2	("4872947").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/19 13:38
S61	19	((("5,522,934") or ("5,620,523") or ("5,772,771") or ("6,132,552") or ("6,294,026") or ("6,453,992") or ("5,792,272") or ("20030033980") or ("20040144310")).PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/19 13:38
S62	2	("5,002,928").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/19 13:38



S63	4	((("5951771") or ("5221449")).PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/19 14:00
S64	225	NGUYEN-ANH-N.in. or CHIAO-STEVE-H.in. or YUAN-XIAOXIONG.in. or LEI-LAWRENCE- CHUNG-LAI.in. or XI- MING.in. or YANG- MICHAEL-X.in. or SEUTTER-SEAN-M.in. or ITOH-TOSHIO.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/19 14:02
S65	108	S64 and valve	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/19 14:03
S66	290	("20010000866"   "20010002280"   "20010009140"   "20010009695"   "20010011526"   "20010021589"   "20010024387"   "20010025979"   "20010028924"   "20010029094"   "20010029891"   "20010031562"   "20010034123"   "20010041250"   "20010042799"   "20010050039"   "20010054730"   "20010054769"   "20020000598"   "20020004293"   "20020005556"   "20020007790"   "20020008297"   "20020014647"   "20020015790"   "20020016084"   "20020019121"   "20020020869"   "20020021544"   "20020029092"   "20020037630"   "20020041931"   "20020043666"   "20020047151"   "20020048635"   "20020048880"   "20020052097"   "20020055235"	US-PGPUB; USPAT; USOCR	OR	ON	2005/07/19 14:47

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"4840921" | "4845049" |  
"4859625" | "4859627" |

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"4917556"	"4927670"
"4931132"	"4951601"
"4960720"	"4975252"
"4993357"	"5000113"
"5013683"	"5028565"
"5082798"	"5085885"
"5091320"	"5130269"
"5166092"	"5173474"
"5186718"	"5205077"
"5225366"	"5234561"
"5246536"	"5250148"
"5254207"	"5256244"
"5259881"	"5270247"
"5278435"	"5281274"
"5286296"	"5290609"
"5290748"	"5294286"
"5296403"	"5300186"
"5306666"	"5311055"
"5316615"	"5316793"
"5330610"	"5336324"
"5338389"	"5348911"
"5374570"	"5395791"
"5438952"	"5439876"
"5441703"	"5443033"
"5443647"	"5455072"
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"5480818"	"5483919"
"5484664"	"5503875"
"5521126"	"5526244"
"5527733"	"5532511"
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"5616181"	"5637530"
"5641984"	"5644128"
"5667592"	"5674786"
"5693139"	"5695564"
"5705224"	"5707880"
"5711811"	"5730801"
"5730802"	"5747113"
"5749974"	"5788447"
"5788799"	"5796116"
"5801634"	"5807792"
"5830270"	"5835677"
"5851849"	"5855675"
"5855680"	"5856219"
"5858102"	"5866213"
"5866795"	"5879459"
"5882165"	"5882413"
"5904565"	"5916365"
"5923056"	"5923985"
"5925574"	"5928389"
"5942040"	"5947710"
"5972430"	"6001669"
"6013553"	"6015590"
"6015917"	"6020243"
"6025627"	"6036773"

		"6042652"   "6043177"   "6051286"   "6062798"   "6071808").PN. OR ("6084302"   "6086677"   "6110556"   "6113977"   "6117244"   "6124158"   "6130147"   "6139700"   "6140237"   "6140238"   "6143659"   "6144060"   "6158446"   "6174377"   "6174809"   "6197683"   "6200893"   "6203613"   "6206967"   "6207302"   "6207487"   "6238734"   "6248605"   "6270572"   "6271148"   "6284646"   "6287965"   "6291283"   "6291876"   "6297539"   "6299294"   "6305314"   "6306216"   "6316098"   "6333260"   "6342277"   "6348376"   "6348386"   "6355561"   "6358829"   "6368954"   "6369430"   "6372598"   "6379748"   "6391785"   "6391803"   "6395650"   "6399491"   "6416577"   "6416822"   "6420189"   "6420279"   "6423619"   "6428859"   "6447933"   "6451119"   "6451695"   "6452229"   "6458701"   "6468924"   "6475276"   "6475910"   "6482262"   "6482733"   "6482740"   "6492283"   "6511539"   "6534395"   "6548424").PN. OR ("6846516").URPN.				
S67	2	"6620250".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 14:45
S68	9797	118/715.ccls. or 118/728. ccls. or 118/50.ccls. or 156/345.29.ccls. or 156/345.33.ccls. or 156/345.34.ccls. or 156/345.35.ccls. or 156/345.36.ccls. or 156/345.26.ccls. or 156/345.51.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 14:45

S69	7879	137/262-264.ccls. or 137/454.2 or 137/560.ccls. or 137/561r.ccls. or 137/561a.ccls. or 137/571-576.ccls. or 137/590.ccls. or 137/594-596.ccls. or 137/599.01.ccls. or 137/599.05-599.07.ccls. or 137/602.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 14:45
S70	2415	141/285-286.ccls. or 141/37.ccls. or 141/44-47.ccls. or 141/54.ccls. or 141/301-302.ccls. or 141/367.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 14:45
S71	472	261/127.ccls. or 261/131.ccls. or 261/146-147.ccls. or 261/150.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 14:45
S72	2608	261/19-22.ccls. or 261/23.1.ccls. or 261/40.ccls. or 261/42.ccls. or 261/62-63.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 14:45
S73	7165	261/64.1.ccls. or 261/65.ccls. or 261/75-76.ccls. or 261/94-96.ccls. or 261/100-102.ccls. or 261/105.ccls. or 261/108-109.ccls. or 261/113.ccls. or 261/114.1.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 14:45
S74	12844	(ald or cvd) and deposit\$3 and valve	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 14:45
S75	29677	(118/715.ccls. or 118/728.ccls. or 118/50.ccls. or 156/345.29.ccls. or 156/345.33.ccls. or 156/345.34.ccls. or 156/345.35.ccls. or 156/345.36.ccls. or 156/345.26.ccls. or 156/345.51.ccls.) or (137/262-264.ccls. or 137/454.2 or 137/560.ccls. or 137/561r.ccls. or 137/561a.ccls. or 137/571-576.ccls. or 137/590.ccls. or 137/594-596.ccls. or 137/599.01.ccls. or 137/599.05-599.07.ccls. or 137/602.ccls.) or (141/285-286.ccls. or 141/37.ccls. or 141/44-47.ccls. or 141/54.ccls. or 141/301-302.ccls. or 141/367.ccls.) or	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 14:53

		(261/127.ccls. or 261/131.ccls. or 261/146-147.ccls. or 261/150.ccls.) or (261/19-22.ccls. or 261/23.1.ccls. or 261/40.ccls. or 261/42.ccls. or 261/62-63.ccls.) or (261/64.1.ccls. or 261/65.ccls. or 261/75-76.ccls. or 261/94-96.ccls. or 261/100-102.ccls. or 261/105.ccls. or 261/108-109.ccls. or 261/113.ccls. or 261/114.1.ccls.)				
S76	2736	(ald or cvd) and deposit\$3 and (valve same wall)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 14:45
S77	444	(ald or cvd) and deposit\$3 and ((valve and actuator) same wall)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 14:45
S78	73	((gate or door) same (gas and spring)) and (ald or cvd) and deposit\$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit\$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 14:45
S79	4	((gate or door) with (gas and spring)) and (ald or cvd) not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit\$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit\$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit\$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)))))) or ((actuator same (gas and	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 14:45

		wall)) and (ald or cvd) and deposit\$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit\$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit\$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit\$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)))))))))				
S80	70589	valve and wall and (deposit \$4 or etch\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 14:45
S81	7555	valve and wall and (deposit \$4 or etch\$4) and flush	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 14:45
S82	33025	(valve and wall and (deposit \$4 or etch\$4)) and (wafer or substrate or article)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 14:45
S83	33025	(valve and wall and (deposit \$4 or etch\$4)) and (wafer or substrate or article)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 14:45
S84	25	(wall with "pinch valve") and deposit\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 14:45
S85	96	(wall with "pinch valve") and (reactor or chamber or vessel or tank) not ((wall with "pinch valve") and deposit\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 14:45
S86	5	"diaphragm valve".ti. and "chemical vapor deposition"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 14:45

S87	1283	((118/715.ccls. or 118/728.ccls. or 118/50.ccls. or 156/345.29.ccls. or 156/345.33.ccls. or 156/345.34.ccls. or 156/345.35.ccls. or 156/345.36.ccls. or 156/345.26.ccls. or 156/345.51.ccls.) or (137/262-264.ccls. or 137/454.2 or 137/560.ccls. or 137/561r.ccls. or 137/561a.ccls. or 137/571-576.ccls. or 137/590.ccls. or 137/594-596.ccls. or 137/599.01.ccls. or 137/599.05-599.07.ccls. or 137/602.ccls.) or (141/285-286.ccls. or 141/37.ccls. or 141/44-47.ccls. or 141/54.ccls. or 141/301-302.ccls. or 141/367.ccls.) or (261/127.ccls. or 261/131.ccls. or 261/146-147.ccls. or 261/150.ccls.) or (261/19-22.ccls. or 261/23.1.ccls. or 261/40.ccls. or 261/42.ccls. or 261/62-63.ccls.) or (261/64.1.ccls. or 261/65.ccls. or 261/75-76.ccls. or 261/94-96.ccls. or 261/100-102.ccls. or 261/105.ccls. or 261/108-109.ccls. or 261/113.ccls. or 261/114.1.ccls.)) and (((ald or cvd) and deposit\$3 and (valve same wall)) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit\$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit\$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)))))) or ((wall with "pinch valve") and deposit\$3) or ((wall with "pinch valve") and (reactor or chamber or vessel or tank) not ((wall with "pinch valve") and deposit\$3)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 14:45
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S88	540	(valve and wall and (deposit \$4 or etch\$4)) and (((118/715.ccls. or 118/728.ccls. or 118/50.ccls. or 156/345.29.ccls. or 156/345.33.ccls. or 156/345.34.ccls. or 156/345.35.ccls. or 156/345.36.ccls. or 156/345.26.ccls. or 156/345.51.ccls.) or (137/262-264.ccls. or 137/454.2 or 137/560.ccls. or 137/561r.ccls. or 137/561a.ccls. or 137/571-576.ccls. or 137/590.ccls. or 137/594-596.ccls. or 137/599.01.ccls. or 137/599.05-599.07.ccls. or 137/602.ccls.) or (141/285-286.ccls. or 141/37.ccls. or 141/44-47.ccls. or 141/54.ccls. or 141/301-302.ccls. or 141/367.ccls.) or (261/127.ccls. or 261/131.ccls. or 261/146-147.ccls. or 261/150.ccls.) or (261/19-22.ccls. or 261/23.1.ccls. or 261/40.ccls. or 261/42.ccls. or 261/62-63.ccls.) or (261/64.1.ccls. or 261/65.ccls. or 261/75-76.ccls. or 261/94-96.ccls. or 261/100-102.ccls. or 261/105.ccls. or 261/108-109.ccls. or 261/113.ccls. or 261/114.1.ccls.)) and (((ald or cvd) and deposit\$3 and (valve same wall)) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit\$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit\$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)))))) or ((wall with "pinch valve") and deposit\$3) or ((wall with "pinch valve") and (reactor or chamber or vessel or tank) not ((wall with "pinch valve") and deposit\$3))))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 14:45
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S89	0	(((gate or door) with (gas and spring)) and (ald or cvd) not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit\$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit\$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit\$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit\$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit\$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit\$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit\$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)))))) ) and ((valve and wall and (deposit\$4 or etch\$4)) and (((118/715.ccls. or 118/728.ccls. or 118/50.ccls. or 156/345.29.ccls. or 156/345.33.ccls. or 156/345.34.ccls. or 156/345.35.ccls. or 156/345.36.ccls. or 156/345.26.ccls. or 156/345.51.ccls.) or (137/262-264.ccls. or 137/454.2 or 137/560.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 14:45
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		or 137/561r.ccls. or 137/561a.ccls. or 137/571-576.ccls. or 137/590.ccls. or 137/594-596.ccls. or 137/599.01.ccls. or 137/599.05-599.07.ccls. or 137/602.ccls.) or (141/285-286.ccls. or 141/37.ccls. or 141/44-47.ccls. or 141/54.ccls. or 141/301-302.ccls. or 141/367.ccls.) or (261/127.ccls. or 261/131.ccls. or 261/146-147.ccls. or 261/150.ccls.) or (261/19-22.ccls. or 261/23.1.ccls. or 261/40.ccls. or 261/42.ccls. or 261/62-63.ccls.) or (261/64.1.ccls. or 261/65.ccls. or 261/75-76.ccls. or 261/94-96.ccls. or 261/100-102.ccls. or 261/105.ccls. or 261/108-109.ccls. or 261/113.ccls. or 261/114.1.ccls.) and (((ald or cvd) and deposit\$3 and (valve same wall)) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit\$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit\$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((wall with "pinch valve") and deposit\$3) or ((wall with "pinch valve") and (reactor or chamber or vessel or tank) not ((wall with "pinch valve") and deposit\$3))))				
S90	2	(("4319737") or ("5002928") or ("5002928").PN. or ("5002928").PN.	USPAT; USOCR	OR	OFF	2005/07/24 14:45
S91	1	("5885358").PN.	USPAT; USOCR	OR	OFF	2005/07/24 14:45
S92	181	RTP.ti.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 14:45

S93	6	((("5002928") or ("5853484") or ("5002928") or ("4319737") or ("5002928") or ("5002928") or ("5002928"))).PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/24 14:45
S94	2	us-20020129768-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 14:45
S95	11	((("6,228,563") or ("6,333,268") or ("4,872,947") or ("5,000,113") or ("5,362,526") or ("20030045098") or ("20020155632"))).PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/24 14:45
S96	2	("4872947").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/24 14:45
S97	19	((("5,522,934") or ("5,620,523") or ("5,772,771") or ("6,132,552") or ("6,294,026") or ("6,453,992") or ("5,792,272") or ("20030033980") or ("20040144310"))).PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/24 14:45
S98	2	("5,002,928").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/24 14:45
S99	2	("5,853,484").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/24 14:45
S100	9797	118/715.ccls. or 118/728.ccls. or 118/50.ccls. or 156/345.29.ccls. or 156/345.33.ccls. or 156/345.34.ccls. or 156/345.35.ccls. or 156/345.36.ccls. or 156/345.26.ccls. or 156/345.51.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 14:45

S101	7879	137/262-264.ccls. or 137/454.2 or 137/560.ccls. or 137/561r.ccls. or 137/561a.ccls. or 137/571-576.ccls. or 137/590.ccls. or 137/594-596.ccls. or 137/599.01.ccls. or 137/599.05-599.07.ccls. or 137/602.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 14:45
S102	2415	141/285-286.ccls. or 141/37.ccls. or 141/44-47.ccls. or 141/54.ccls. or 141/301-302.ccls. or 141/367.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 14:45
S103	472	261/127.ccls. or 261/131.ccls. or 261/146-147.ccls. or 261/150.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 14:45
S104	2608	261/19-22.ccls. or 261/23.1.ccls. or 261/40.ccls. or 261/42.ccls. or 261/62-63.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 14:45
S105	7165	261/64.1.ccls. or 261/65.ccls. or 261/75-76.ccls. or 261/94-96.ccls. or 261/100-102.ccls. or 261/105.ccls. or 261/108-109.ccls. or 261/113.ccls. or 261/114.1.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 14:45
S106	12844	(ald or cvd) and deposit\$3 and valve	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 14:45
S107	29677	(118/715.ccls. or 118/728.ccls. or 118/50.ccls. or 156/345.29.ccls. or 156/345.33.ccls. or 156/345.34.ccls. or 156/345.35.ccls. or 156/345.36.ccls. or 156/345.26.ccls. or 156/345.51.ccls.) or (137/262-264.ccls. or 137/454.2 or 137/560.ccls. or 137/561r.ccls. or 137/561a.ccls. or 137/571-576.ccls. or 137/590.ccls. or 137/594-596.ccls. or 137/599.01.ccls. or 137/599.05-599.07.ccls. or 137/602.ccls.) or (141/285-286.ccls. or 141/37.ccls. or 141/44-47.ccls. or 141/54.ccls. or 141/301-302.ccls. or 141/367.ccls.) or	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 14:45

		(261/127.ccls. or 261/131.ccls. or 261/146-147.ccls. or 261/150.ccls.) or (261/19-22.ccls. or 261/23.1.ccls. or 261/40.ccls. or 261/42.ccls. or 261/62-63.ccls.) or (261/64.1.ccls. or 261/65.ccls. or 261/75-76.ccls. or 261/94-96.ccls. or 261/100-102.ccls. or 261/105.ccls. or 261/108-109.ccls. or 261/113.ccls. or 261/114.1.ccls.)				
S108	2736	(ald or cvd) and deposit\$3 and (valve same wall)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 14:45
S109	444	(ald or cvd) and deposit\$3 and ((valve and actuator) same wall)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 14:45
S110	73	((gate or door) same (gas and spring)) and (ald or cvd) and deposit\$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit\$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 14:45
S111	4	((gate or door) with (gas and spring)) and (ald or cvd) not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit\$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit\$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit\$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)))))) or ((actuator same (gas and	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 14:45

		wall)) and (ald or cvd) and deposit\$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit\$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit\$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit\$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)))))))))				
S112	70589	valve and wall and (deposit \$4 or etch\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 14:45
S113	7555	valve and wall and (deposit \$4 or etch\$4) and flush	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 14:45
S114	33025	(valve and wall and (deposit \$4 or etch\$4)) and (wafer or substrate or article)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 14:45
S115	33025	(valve and wall and (deposit \$4 or etch\$4)) and (wafer or substrate or article)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 14:45
S116	25	(wall with "pinch valve") and deposit\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 14:45
S117	96	(wall with "pinch valve") and (reactor or chamber or vessel or tank) not ((wall with "pinch valve") and deposit\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 14:45
S118	5	"diaphragm valve".ti. and "chemical vapor deposition"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 14:45

S119	1283	((118/715.ccls. or 118/728.ccls. or 118/50.ccls. or 156/345.29.ccls. or 156/345.33.ccls. or 156/345.34.ccls. or 156/345.35.ccls. or 156/345.36.ccls. or 156/345.26.ccls. or 156/345.51.ccls.) or (137/262-264.ccls. or 137/454.2 or 137/560.ccls. or 137/561r.ccls. or 137/561a.ccls. or 137/571-576.ccls. or 137/590.ccls. or 137/594-596.ccls. or 137/599.01.ccls. or 137/599.05-599.07.ccls. or 137/602.ccls.) or (141/285-286.ccls. or 141/37.ccls. or 141/44-47.ccls. or 141/54.ccls. or 141/301-302.ccls. or 141/367.ccls.) or (261/127.ccls. or 261/131.ccls. or 261/146-147.ccls. or 261/150.ccls.) or (261/19-22.ccls. or 261/23.1.ccls. or 261/40.ccls. or 261/42.ccls. or 261/62-63.ccls.) or (261/64.1.ccls. or 261/65.ccls. or 261/75-76.ccls. or 261/94-96.ccls. or 261/100-102.ccls. or 261/105.ccls. or 261/108-109.ccls. or 261/113.ccls. or 261/114.1.ccls.)) and (((ald or cvd) and deposit\$3 and (valve same wall)) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit\$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit\$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)))))) or ((wall with "pinch valve") and deposit\$3) or ((wall with "pinch valve") and (reactor or chamber or vessel or tank) not ((wall with "pinch valve") and deposit\$3)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 14:45
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S120	0	<p>((gate or door) with (gas and spring)) and (ald or cvd) not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit\$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit\$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit\$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)))) or ((actuator same (gas and wall)) and (ald or cvd) and deposit\$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit\$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit\$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit\$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)))))) ) and ((valve and wall and (deposit\$4 or etch\$4)) and (((118/715.ccls. or 118/728.ccls. or 118/50.ccls. or 156/345.29.ccls. or 156/345.33.ccls. or 156/345.34.ccls. or 156/345.35.ccls. or 156/345.36.ccls. or 156/345.26.ccls. or 156/345.51.ccls.) or (137/262-264.ccls. or 137/454.2 or 137/560.ccls.</p>	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 14:45
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		or 137/561r.ccls. or 137/561a.ccls. or 137/571-576.ccls. or 137/590.ccls. or 137/594-596.ccls. or 137/599.01.ccls. or 137/599.05-599.07.ccls. or 137/602.ccls.) or (141/285-286.ccls. or 141/37.ccls. or 141/44-47.ccls. or 141/54.ccls. or 141/301-302.ccls. or 141/367.ccls.) or (261/127.ccls. or 261/131.ccls. or 261/146-147.ccls. or 261/150.ccls.) or (261/19-22.ccls. or 261/23.1.ccls. or 261/40.ccls. or 261/42.ccls. or 261/62-63.ccls.) or (261/64.1.ccls. or 261/65.ccls. or 261/75-76.ccls. or 261/94-96.ccls. or 261/100-102.ccls. or 261/105.ccls. or 261/108-109.ccls. or 261/113.ccls. or 261/114.1.ccls.) and (((ald or cvd) and deposit\$3 and (valve same wall)) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit\$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit\$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.))))) or ((wall with "pinch valve") and deposit\$3) or ((wall with "pinch valve") and (reactor or chamber or vessel or tank) not ((wall with "pinch valve") and deposit\$3))))))				
S121	2	((("4319737") or ("5002928") or ("5002928")) or ("5002928")).PN.	USPAT; USOCR	OR	OFF	2005/07/24 14:45
S122	1	("5885358").PN.	USPAT; USOCR	OR	OFF	2005/07/24 14:45
S123	6	((("5002928") or ("5853484") or ("5002928") or ("4319737") or ("5002928") or ("5002928")) or ("5002928")).PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/24 14:45

S124	2	us-20020129768-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 14:45
S125	11	((("6,228,563") or ("6,333,268") or ("4,872,947") or ("5,000,113") or ("5,362,526") or ("20030045098") or ("20020155632")).PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/24 14:45
S126	2	("4872947").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/24 14:45
S127	19	((("5,522,934") or ("5,620,523") or ("5,772,771") or ("6,132,552") or ("6,294,026") or ("6,453,992") or ("5,792,272") or ("20030033980") or ("20040144310")).PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/24 14:45
S128	2	("5,002,928").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/24 14:45
S129	181	RTP.ti.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 14:45
S130	540	(valve and wall and (deposit \$4 or etch\$4)) and (((118/715.ccls. or 118/728. ccls. or 118/50.ccls. or 156/345.29.ccls. or 156/345.33.ccls. or 156/345.34.ccls. or 156/345.35.ccls. or 156/345.36.ccls. or 156/345.26.ccls. or 156/345.51.ccls.) or (137/262-264.ccls. or 137/454.2 or 137/560.ccls. or 137/561r.ccls. or 137/561a.ccls. or 137/571- 576.ccls. or 137/590.ccls. or 137/594-596.ccls. or 137/599.01.ccls. or 137/599.05-599.07.ccls. or 137/602.ccls.) or (141/285- 286.ccls. or 141/37.ccls. or 141/44-47.ccls. or 141/54.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 14:45

		ccls. or 141/301-302.ccls. or 141/367.ccls.) or (261/127.ccls. or 261/131.ccls. or 261/146-147.ccls. or 261/150.ccls.) or (261/19-22.ccls. or 261/23.1.ccls. or 261/40.ccls. or 261/42.ccls. or 261/62-63.ccls.) or (261/64.1.ccls. or 261/65.ccls. or 261/75-76.ccls. or 261/94-96.ccls. or 261/100-102.ccls. or 261/105.ccls. or 261/108-109.ccls. or 261/113.ccls. or 261/114.1.ccls.)) and (((ald or cvd) and deposit\$3 and (valve same wall)) or (((gate or door) same (gas and spring)) and (ald or cvd) and deposit\$3 not (((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)) or (((ald or cvd) and deposit\$3 and ((valve and actuator) same wall)) not ((valve same actuator) and (118/715.ccls. or 156/345.33.ccls.)))))) or ((wall with "pinch valve") and deposit\$3) or ((wall with "pinch valve") and (reactor or chamber or vessel or tank) not ((wall with "pinch valve") and deposit\$3))))				
S131	4	(( "5951771") or ("5221449")).PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/24 14:45
S132	225	NGUYEN-ANH-N.in. or CHIAO-STEVE-H.in. or YUAN-XIAOXIONG.in. or LEI-LAWRENCE-CHUNG-LAI.in. or XI-MING.in. or YANG-MICHAEL-X.in. or SEUTTER-SEAN-M.in. or ITOH-TOSHIO.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 14:45
S133	108	S132 and valve	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 14:45

S134	290	( "20010000866" "20010002280" "20010009140" "20010009695" "20010011526" "20010021589" "20010024387" "20010025979" "20010028924" "20010029094" "20010029891" "20010031562" "20010034123" "20010041250" "20010042799" "20010050039" "20010054730" "20010054769" "20020000598" "20020004293" "20020005556" "20020007790" "20020008297" "20020014647" "20020015790" "20020016084" "20020019121" "20020020869" "20020021544" "20020029092" "20020037630" "20020041931" "20020043666" "20020047151" "20020048635" "20020048880" "20020052097" "20020055235" "20020061612" "20020064970" "20020068458" "20020073924" "20020074588" "20020076481" "20020076507" "20020076508" "20020076837" "20020081826" "20020081844" "20020090829" "20020093046" "20020093781" "20020094689" "20020098627" "20020104481" "20020105088" "20020106536"	US-PGPUB; USPAT; USOCR	OR	ON	2005/07/24 14:46
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S135	4047	S75 and ((valve near/2 seat with (chamber or reactor))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 14:54
S136	7	S75 and ((pinch adj1 valve) with (chamber or reactor))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 14:58
S137	42	S75 and (pinch adj1 valve) not S136	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 15:00
S138	747	S75 and (valve with (seat and wall))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 15:01
S139	41	S138 and (wafer or substrate)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 15:14
S140	2	"20030116087"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 15:17
S141	2	"6916398".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/24 15:17



S142	386	( "20010000866" "20010002280" "20010009140" "20010009695" "20010011526" "20010013312" "20010014371" "20010024387" "20010025979" "20010028924" "20010029094" "20010031562" "20010034123" "20010041250" "20010042523" "20010042799" "20010054377" "20010054730" "20010054769" "20020000196" "20020000598" "20020004293" "20020007790" "20020019121" "20020020869" "20020021544" "20020031618" "20020037630" "20020041931" "20020048635" "20020048880" "20020052097" "20020055235" "20020060363" "20020061612" "20020066411" "20020068458" "20020073924" "20020076481" "20020076507" "20020076508" "20020076837" "20020086106" "20020086111" "20020086507" "20020090829" "20020092471" "20020094689" "20020098627" "20020104481" "20020105088" "20020106536" "20020106846" "20020108570" "20020109168" "20020117399" "20020121241"	US-PGPUB; USPAT; USOCR	OR	ON	2005/07/24 15:36
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S143	1	"6056823".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2005/07/24 15:27
S144	16	("118"/\$.ccls. or "156"/\$. ccls.) and (wafer or substrate) and microvalve and (chamber or reactor or vessel)	US-PGPUB; USPAT; USOCR	OR	ON	2005/07/24 16:06
S145	7	("118"/\$.ccls. or "156"/\$. ccls.) and (wafer or substrate) and (conical adj1 valve) and (chamber or reactor or vessel)	US-PGPUB; USPAT; USOCR	OR	ON	2005/07/24 16:09
S146	0	("118"/\$.ccls. or "156"/\$. ccls.) and (wafer or substrate) and (connical adj1 valve) and (chamber or reactor or vessel)	US-PGPUB; USPAT; USOCR	OR	ON	2005/07/24 16:09

S147	34	("118"/\$.ccls. or "156"/\$.ccls.) and (wafer or substrate) and (conical with valve) and (chamber or reactor or vessel)	US-PGPUB; USPAT; USOCR	OR	ON	2005/07/24 16:09
S148	27	("3730134"   "4157931"   "4201149"   "4519846"   "4640846"   "4889069"   "5009185"   "5234499"). PN. OR ("5439519"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/07/24 16:19
S149	2	("20030119328").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/24 16:20
S150	2	("5225366").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/07/24 16:20
S151	1	("4,747,367").PN.	USPAT	OR	OFF	2006/03/20 14:17
S152	1	("5,002,928").PN.	USPAT	OR	OFF	2006/03/20 14:17
S153	2	"4,747,367".did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/03/20 14:54
S154	8	((("4747367") or ("5002928") or ("4319737") or ("5853484")).PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/01 09:34
S155	14	(US-20030116087-\$ or US-20050139160-\$ or US-20050008779-\$ or US-20030172872-\$ or US-20030190497-\$ or US-20030190423-\$).did. or (US-6620250-\$ or US-6478923-\$ or US-6224681-\$ or US-6846516-\$ or US-4732124-\$ or US-5033538-\$ or US-5439519-\$ or US-5567267-\$).did.	US-PGPUB; USPAT	OR	ON	2007/03/08 10:15
S156	2	("4747367").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/08 10:19
S157	2	("5002928").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/08 10:19

S158	2	("4319737").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/08 10:21
S159	2	("5,853,484").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/08 10:21
S160	18	(US-20030116087-\$ or US-20050139160-\$ or US-20050008779-\$ or US-20030172872-\$ or US-20030190497-\$ or US-20030190423-\$).did. or (US-6620250-\$ or US-6478923-\$ or US-6224681-\$ or US-6846516-\$ or US-4732124-\$ or US-5033538-\$ or US-5439519-\$ or US-5567267-\$ or US-4747367-\$ or US-5002928-\$ or US-4319737-\$ or US-5853484-\$).did.	US-PGPUB; USPAT	OR	ON	2007/03/08 10:26
S161	2	("5,002,928").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/12 16:46
S162	18	(US-20030116087-\$ or US-20050139160-\$ or US-20050008779-\$ or US-20030172872-\$ or US-20030190497-\$ or US-20030190423-\$).did. or (US-6620250-\$ or US-6478923-\$ or US-6224681-\$ or US-6846516-\$ or US-4732124-\$ or US-5033538-\$ or US-5439519-\$ or US-5567267-\$ or US-4747367-\$ or US-5002928-\$ or US-4319737-\$ or US-5853484-\$).did.	US-PGPUB; USPAT	OR	ON	2008/12/14 22:21
S163	33	(wafer or substrate) and (valve and showerhead) and (chamber or reactor)	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/14 22:35
S164	192	(wafer or substrate) and ("needle valve")	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/14 22:40
S165	0	zervigon.xp.	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/14 22:53

S166	71	zervigon.xp.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/14 22:53
S167	23	("20030000469"   "20030019580"   "3589394"   "3610278"   "4761269"   "4780169"   "5108535"   "5174825"   "5269847"   "5286331"   "5496408"   "5589110"   "5683517"   "5728223"   "5746875"   "5853484"   "5885358"   "6286454"   "6315858"   "6446573"). PN. OR ("6872259"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/14 22:56
S168	20	(US-20030116087-\$ or US- 20050139160-\$ or US- 20050008779-\$ or US- 20030172872-\$ or US- 20030190497-\$ or US- 20030190423-\$).did. or (US-6620250-\$ or US- 6478923-\$ or US-6224681- \$ or US-6846516-\$ or US- 4732124-\$ or US-5033538- \$ or US-5439519-\$ or US- 5567267-\$ or US-4747367- \$ or US-5002928-\$ or US- 4319737-\$ or US-5853484- \$ or US-6446573-\$ or US- 4761269-\$).did.	US-PGPUB; USPAT	OR	ON	2008/12/18 14:59
S169	2	("6331212").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/18 15:07
S170	4	((("6331212") or ("4761269"))).PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/18 15:09

12/19/08 3:44:44 PM

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